

Human Gastricsin(PGII)/PGC Recombinant Protein

PX-P3001-10

DESCRIPTION

Pepsinogen C (progastricsin), also known as PGC, is an aspartic proteinase that belongs to the peptidase family A1. Pepsin C, the activated protease is a digestive enzyme that is produced in the stomach and constitutes a main component of the gastric mucosa. At low pH conditions, pepsinogen C undergoes conversion into active enzyme. Pepsinogen C has been found expressed in all regions of the stomach mucosa and also in the proximal duodenal mucosa. In stomach cancer tissues and cancer cell lines, the expressions of the pepsinogen genes were declined or lost, in good accordance with their pepsinogen productions. No gross structural changes of the pepsinogen genes were noticed in these cancers, but the methylation patterns of the pepsinogen genes were found to be altered in diverse ways in different cancers. Serum levels of this enzyme are used as a biomarker for certain gastric diseases including Helicobacter pylori related gastritis.

OVERVIEW

SIZE	10 ug
ORIGIN SPECIES	Human
FRAGMENT	
PROTEIN DELIVERED WITH TAG	Yes
MOLECULAR WEIGHT WITH TAG IF ANY	43.33 kDa
DELIVERY CONDITION	Dry Ice

PRODUCT INFORMATION

EXPRESSION SYSTEM	Eukaryotic expression
HOST	mammalian
PURITY	90%
PROTEIN ACCESSION	P20142
FORM	Frozen
BUFFER	PBS, pH 7.5
STABILITY & STORAGE	4°C for short term (1 week), -20°C or -80°C for long term (avoid freezing/thawing cycles; addition of 20-40% glycerol improves cryoprotection)



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MORE INFO

GENE ID

SWISSPROTID P20142.1

UNIPROT ID P20142

UNIPROT LINK <http://www.uniprot.org/uniprot/P20142>

NCBI GENE ALIASES PGC

SYNONYMS Pepsinogen C, Gastricsin, PGC

PROTEIN SEQUENCE

MKWMVVVLVCLQLLEAAVVKVPLKKFKSIRETMKEKGLLGEFLRTHKYDPAWKYRFGDLSVTYEPMAYMDAAAYFGEISIGTPPQNFLVLFDTGSSNLWVPSVY
CQSQACTSHSRFPSESSTYSTNGQTFSLQYGSGSLTGFFGYDTLTVQSIQVPNQEFGLSENEPGTNFVYAQFDGIMGLAYPALSVD EATTAMQGMVQEGALTSPV
FSVYLSNQGGSSGAVVFGGVDS SLYTGQIYWAPVTQELYWQIGIE

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